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~~Martin GmbH für Umwelt-~~

~~und Energietechnik~~

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Abstract of the Disclosure

~~SUMMARY~~

In ~~this~~ process for gasifying and burning waste materials, the waste materials are introduced into an incinerator (1) and end up on a burning grate (6) to which air is conducted ~~by means of~~ various undergrate forced draft chambers (8a to 8e). In the first area, air is introduced at a superstoichiometric level in order to ignite the waste materials. Then, via the undergrate forced draft chambers (8c to 8e), oxygen is mixed into the air which is used for the gasification, ~~at the same time~~ establishing a substoichiometric level which ~~leads to~~ gasification of the waste materials. ~~These~~ combustible gases which ~~come about in the~~ process pass via ~~the~~ waste gas flue (12) into a second furnace (2), in which the gases are burned at a superstoichiometric level through the introduction of combustion air. The resulting waste gases pass to a heat exchanger (3).

~~(Figure)~~